ABSTRACT

Debugger impact reduction through motion of an induction variable based breakpoint ("IV-breakpoint") set within a program loop, where the IV-breakpoint and the loop are controlled by an induction variable having an induction rate, may include extracting, from program code within the program loop, the induction rate; extracting,

5   from the IV-breakpoint, a final value of the induction variable for which the IV-breakpoint would be satisfied; and if the IV-breakpoint is satisfied and the induction variable has a present value that would be beyond the final value upon a next iteration of the loop based on the induction rate, removing the IV-breakpoint. Debugger impact reduction may further include setting, at one or more loop exit program

10   positions, a reset breakpoint; and if one of the reset breakpoints is satisfied, removing the reset breakpoints and/or reestablishing the IV-breakpoint.